


Available features	
1 / 1 DWPI - Derwent World Patents Index - The Thomson Corp.	
2003-494683 [47] - Fiber-reinforced ceramic brake disc production, molds blank and penetrates it...	
AN	2003-494683 [47]
XA	C2003-132531
XP	N2003-393011
TI	Fiber-reinforced ceramic brake disc production, molds blank and penetrates it to form openings
DC	L02 Q63
PA	(PORS) PORSCHE AG F
IN	ROLAND M
NP	1
NC	1
PN	 DE10157995 A1 20030612 DW2003-47 F16D-065/12 6p * AP: 2001DE-1057995 20011125
PR	2001DE-1057995 20011125
IC	F16D-065/12 C04B-035/565 F16D-069/02
AB	<p>DE10157995 A</p> <p>NOVELTY - Openings are made by a penetrative process, following molding of a blank for the brake disc</p> <p>USE - To make a fiber-reinforced brake disc with openings.</p> <p>ADVANTAGE - Penetration is carried out such that the fibers are not damaged or ruptured. Rupture exposes fiber ends to oxygen. At the high temperatures of use, they oxidize, leading to weakness. Fibers are compressed by penetration, and run around the openings. This improves fiber orientation, partially compensating weakness caused by the presence of openings. Cylindrical cores producing the openings, form them to the finished size. Slight conicity facilitates extraction. They may be left in-situ if required, as lost cores, to be removed later.</p> <p>DESCRIPTION OF DRAWING(S) - An exploded perspective view of the brake disc (1) and hub mounting (2) is shown. The disc includes radial and transverse openings made by the process. These provide air cooling and fastening (3) points.</p> <p>brake disc 1 hub mounting 2 fastening 3(Dwg.1/4)</p>
MC	CPI: L02-F03 L02-F06 L02-H04A L02-J02C
UP	2003-47
UP4	2003-07